BRUHATH BENGALURU MAHANAGARA PALIKE

Yelahanka Division, Yelahanka Zone

Executive Engineeer
Yelahanka Division
B.B.M.P. Bengaluru - 64

No:EE/YNK-D/E-PMT/14/2021-22 Dated: 15-12-2021

APPROVED TENDER SCHEDULE –'B'

Item 05

Name of Work :-Additional and Alteration of School Buildings at Kanakanagara, Allalasandra and Ambedkar Nagara in Ward No 04

Sl	Description	Unit	Approved Qty	Rate quoted by the contractor approved rates Sri RAGHUNATH B P	
				Rate	Rate in Words
1	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications and the directions of the Engineer-in-charge.	Cum	65.80	1800.21	One Thousand Eight Hundred Paise TwentyOne Only
2	.Dismantling of existing structures like culverts,bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding whereverнecessary, sorting the dismantled material, disposal of unserviceablematerial and stacking the serviceable material with all lifts Complete as per specifications and the directions of the Engineer-in-charge	Cum	81.98	397.65	Three Hundred NinetySeven Paise SixtyFive Only
3	Dismantling cement concrete flooring or plain cement concrete work including removing and conveying the debris to distance upto 200m (within average thickness of 15 cms) Complete as per specifications and the directions of the Engineer-in-charge	Sqm	264.68	97.43	NinetySeven Paise FourtyThree Only
4	.Dismantling plastering and removing the debris with a lead upto 200m.Complete as per specifications and the directions of the Engineer-in-charge	Sqm	451.79	41.92	FourtyOne Paise NinetyTwo Only
5	Conveying the excavated earth, debries etc., with all lead and lifts including loading and unloading charges etc.,Complete as per specifications and the directions of the Engineer-in-charge	Cum	254.12	70.38	Seventy Paise ThirtyEight Only
6	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the exavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods Complete as per specifications and the directions of the Engineer-in-charge	Cum	227.25	508.68	Five Hundred Eight Paise SixtyEight Only

	Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. Complete as per specifications and the directions of the Engineer-in-charge	Cum	17.54	2751.86	Two Thousand Seven Hundred FiftyOne Paise EightySix Only
8	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing Complete as per specifications and the directions of the Engineer-in-charge	Cum	45.05	6706.56	Six Thousand Seven Hundred Six Paise FiftySix Only
9	Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.43cum, with superplastisiser @3lts confirming to IS 9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery,curing Complete as per specifications and the directions of the Engineer-in-charge	Cum	77.99	6741.03	Six Thousand Seven Hundred FourtyOne Paise Three Only
10	Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:6, stone hammerddressed in courses not less than 20 cms high, bond stones at 2m apart in each course including cost of materials, labour, curing Complete as per specifications and the directions of the Engineer-in-charge	Cum	49.11	5206.90	Five Thousand Two Hundred Six Paise Ninety Only
11	Filling available excavated earth(excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour Complete as per specifications and the directions of the Engineer-in-charge	Cum	169.65	227.72	Two Hundred TwentySeven Paise SeventyTwo Only
12	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour Complete as per specifications and the directions of the Engineer-in-charge	Sqm	132.55	292.29	Two Hundred NinetyTwo Paise TwentyNine Only
13	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness , including attached pilasters, buttresses, plinth and string courses cost of all materials, labour Complete as per specifications and the directions of the Engineer-in-charge	Sqm	114.18	405.59	Four Hundred Five Paise FiftyNine Only

14	Providing and removing centering, shuttering, strutting, propping etc. and Removal of form Work for columns, pillars, piers, post and struts, square / rectangular / polygon in plan including cost of all materials, labour Complete as per specifications and the directions of the Engineer-in-charge	Sqm	195.78	516.61	Five Hundred Sixteen Paise SixtyOne Only
15	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for suspended floors, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specificaitons for heights more than 3.50m from ground level. - 0 to 5 mtrs.Complete as per specifications and the directions of the Engineer-in-charge	Sqm	318.15	453.17	Four Hundred FiftyThree Paise Seventeen Only
16	Providing and removing centering, shuttering, strutting, propping etc., for edges of slabs and breaks in floors including cost of all materials,labour Complete as per specifications and the directions of the Engineer-in-charge	Sqm	24.17	855.35	Eight Hundred FiftyFive Paise ThirtyFive Only
17	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour Complete as per specifications and the directions of the Engineer-in-charge	Sqm	271.47	330.81	Three Hundred Thirty Paise EightyOne Only
18	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for Stairs (excluding landing) except spiral staircase including cost of all materials, labour Complete as per specifications and the directions of the Engineer-in-charge	Sqm	46.28	589.12	Five Hundred EightyNine Paise Twelve Only
19	Providing and removing centering, shuttering, strutting, propping etc., for chajjas, corbels etc. , including edges including cost of all materials, labour Complete as per specifications and the directions of the Engineer-in-charge	Sqm	21.06	365.93	Three Hundred SixtyFive Paise NinetyThree Only
20	Providing and laying in position reinforced cement concrete of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregtes @ 0.47cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, Complete as per specifications and the directions of the Engineer-in-charge	Cum	101.82	7383.34	Seven Thousand Three Hundred EightyThree Paise ThirtyFour Only

	Providing and laying in position reinforced cementconcrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum andfine aggregtes @ 0.47cum,with superplastisiser @3lts confirming to IS 9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick,vibrated fo all works in ground Floor level for roof slabs ,staircase, lintels , beams, retaining walls ,return wall, walls (an thick ness) including attached plasters ,columns, pillars,posts,struts.butters,string or lacing courses ,parapets,coping,bed blocks,anchor blocks ,plain window cills,fillets including cost of all materials, labour,HOM of machinery, curing, Complete as per specifications and the directions of the Engineer-in-charge Ground Floor	Cum	4.24	7647.31	Seven Thousand Six Hundred FourtySeven Paise ThirtyOne Only
22	Providing and laying in position reinforced cementconcrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum andfine aggregtes @ 0.47cum,with superplastisiser @3lts confirming to IS 9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick,vibrated fo all works in ground Floor level for roof slabs ,staircase, lintels , beams, retaining walls ,return wall, walls (an thivck ness) including attached plasters ,columns, pillars,posts,struts.butters,string or lacing courses ,parapets,coping,bed blocks,anchor blocks ,plain window cills,fillets including cost of all materials, labour,HOM of machinery, curing, Complete as per specifications and the directions of the Engineer-in-charge First floor	Cum	9.26	7715.29	Seven Thousand Seven Hundred Fifteen Paise TwentyNine Only
23	Providing and laying cement concrete using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) for R.C.C works laid in 15 cms thick layers and well compacted including vibrating, curing, etc for all super Structure works with all lead and Lift etc., complete (exclusive of cost of steel and fabrication charges) Ready mixed cement for concrete with M-25.Complete as per specifications and the directions of the Engineer-in-charge	Cum	77.59	7026.47	Seven Thousand TwentySix Paise FourtySeven Only
24	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 27.20kgs, with 12mm and down size graded granite metal coarse aggregates @0.5865cum and fine aggregtes @ 0.391cum, with superplastisiser @0.225lts, machine mixed, well compacted for plain chajja of 8.5 cms. average thickness, upto First Floor level, including cost of all materials, labour, HOM of machinery, finishing, curing, Complete as per specifications and the directions of the Engineer-in-charge Ground Floor	Sqm	9.90	561.93	Five Hundred SixtyOne Paise NinetyThree Only

25	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 27.20kgs, with 12mm and down size graded granite metal coarse aggregates @0.5865cum and fine aggregtes @ 0.391cum, with superplastisiser @0.225lts, machine mixed, well compacted for plain chajja of 8.5 cms. average thickness, upto First Floor level, including cost of all materials, labour, HOM of machinery, finishing, curing, Complete as per specifications and the directions of the Engineer-in-charge First Floor	Sqm	6.30	567.59	Five Hundred SixtySeven Paise FiftyNine Only
26	Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery Complete as per specifications and the directions of the Engineer-in-charge Ground Floor	tonne	21.68	99036.47	NinetyNine Thousand ThirtySix Paise FourtySeven Only
27	Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery Complete as per specifications and the directions of the Engineer-in-charge First Floor	tonne	4.66	99883.89	NinetyNine Thousand Eight Hundred EightyThree Paise EightyNine Only
28	Providing and constructing load bearing wall with solid concrete blocks of size 400X200X200mm having block density not less than 1800kg/m3 having a minimum average compressive strength 5.00N/mm2 confirming to IS 2185 (part 1) :2005 and constructed with cement mortar 1:4,as per IS 2572:2005 including cost of materials, labour charges, scaffolding, curing, hire charges of machinaries etc., Complete as per specifications and the directions of the Engineer-in-charge Ground Floor	Sqm	266.38	1033.22	One Thousand ThirtyThree Paise TwentyTwo Only
29	Providing and constructing load bearing wall with solid concrete blocks of size 400X200X200mm having block density not less than 1800kg/m3 having a minimum average compressive strength 5.00N/mm2 confirming to IS 2185 (part 1) :2005 and constructed with cement mortar 1:4,as per IS 2572:2005 including cost of materials, labour charges, scaffolding, curing, hire charges of machinaries etc., Complete as per specifications and the directions of the Engineer-in-charge First Floor	Sqm	131.77	1101.20	One Thousand One Hundred One Paise Twenty Only

30	Providing and constructing load bearing wall with solid concrete blocks of size 400X200X200mm having block density not less than 1800kg/m3 having a minimum average compressive strength 5.00N/mm2 confirming to IS 2185 (part 1) :2005 and constructed with cement mortar 1:4,as per IS 2572:2005 including cost of materials, labour charges, scaffolding, curing, hire charges of machinaries etc., Complete as per specifications and the directions of the Engineer-in-charge Terrace Floor	Sqm	87.20	1169.17	One Thousand One Hundred SixtyNine Paise Seventeen Only
31	Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners. wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing Complete as per specifications and the directions of the Engineer-in-charge Ground Floor	Sqm	294.77	295.69	Two Hundred NinetyFive Paise SixtyNine Only
32	Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners. wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing Complete as per specifications and the directions of the Engineer-in-charge First Floor	Sqm	286.81	309.29	Three Hundred Nine Paise TwentyNine Only
33	Providing 12mm thick cement plaster in single coat with cement mortar 1:4 , to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing Complete as per specifications and the directions of the Engineer-in-charge Ground Floor	Sqm	411.41	231.12	Two Hundred ThirtyOne Paise Twelve Only
34	Providing 12mm thick cement plaster in single coat with cement mortar 1:4 , to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing Complete as per specifications and the directions of the Engineer-in-charge First Floor	Sqm	194.04	237.91	Two Hundred ThirtySeven Paise NinetyOne Only
35	Providing 12mm thick cement plaster in single coat with cement mortar 1:4 , to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing Complete as per specifications and the directions of the Engineer-in-charge Terrace Floor	Sqm	100.26	244.71	Two Hundred FourtyFour Paise SeventyOne Only
36	Providing rough cement plastering 15mm thick in single coat with cement mortar 1:4 to brick masonry for base of dadooing works with sand of approved quality, providing and removing scaffolding, inclding cost of materials, labour, curing Complete as per specifications and the directions of the Engineer-in-charge	Sqm	32.97	232.25	Two Hundred ThirtyTwo Paise TwentyFive Only

37	Providing 12mm thick cement plaster in single coat with cement mortar 1:4 , to ceiling including rounding off corners wherever required smooth rendering, : including Providing and removing scaffolding, including cost of materials, labour, curing Complete as per specifications and the directions of the Engineer-in-charge	Sqm	262.88	254.91	Two Hundred FiftyFour Paise NinetyOne Only
38	Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty . Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of alll mateerial cost of labour and scaffolding etc.,Complete as per specifications and the directions of the Engineer-in-charge	Sqm	968.60	88.37	EightyEight Paise ThirtySeven Only
39	Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, Complete as per specifications and the directions of the Engineer-in-charge	Sqm	705.71	101.96	One Hundred One Paise NinetySix Only
40	Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after throughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, Complete as per specifications and the directions of the Engineer-in-charge	Sqm	262.88	133.68	One Hundred ThirtyThree Paise SixtyEight Only
41	Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, Complete as per specifications and the directions of the Engineer-in-charge Ground Floor	Sqm	294.77	115.56	One Hundred Fifteen Paise FiftySix Only
42	Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, Complete as per specifications and the directions of the Engineer-in-charge First Floor	Sqm	286.81	124.62	One Hundred TwentyFour Paise SixtyTwo Only

43	Providing and laying M-15 cement concrete flooring, 50 mm thick with metallic concrete hardner topping , under layer of 35mm thick m-15 cement concrete using broken granite metal of 20mm and down size, and top layer 50mm thick of metallic cement hardner consisting of mix 1:2 (1 cement hardner mix : 2 granite metal 10mm nominal size) by volume, with which metallic hardening compound of approved quality mix in the ratio of 4:1 (4 part of cement and 1 part of metallic floor hardening compound of approved quality by wt) , including finishing cost of materials, labour, curing, Complete as per specifications and the directions of the Engineer-in-charge Ground Floor	Sqm	149.50	714.87	Seven Hundred Fourteen Paise EightySeven Only
44	Providing and laying M-15 cement concrete flooring, 50 mm thick with metallic concrete hardner topping , under layer of 35mm thick m-15 cement concrete using broken granite metal of 20mm and down size, and top layer 50mm thick of metallic cement hardner consisting of mix 1:2 (1 cement hardner mix : 2 granite metal 10mm nominal size) by volume, with which metallic hardening compound of approved quality mix in the ratio of 4:1 (4 part of cement and 1 part of metallic floor hardening compound of approved quality by wt) , including finishing cost of materials, labour, curing, Complete as per specifications and the directions of the Engineer-in-charge First Floor	Sqm	82.50	717.14	Seven Hundred Seventeen Paise Fourteen Only
45	Providing and fixing Vetrified glazed tiles of approved make quality & colour of size 600x600x 10mm thick fixed on bed of 12mm thick cement mortar for flooring ,skirting and jointed with neat cement slurry mixed with pigment to match shade of tiles, including providing spacers at required interval and removing stains etc including Cost of all materials mortar labour etc Complete as per specifications and the directions of the Engineer-in-charge Ground Floor	Sqm	29.06	1105.73	One Thousand One Hundred Five Paise SeventyThree Only
46	Providing and fixing Vetrified glazed tiles of approved make quality & colour of size 600x600x 10mm thick fixed on bed of 12mm thick cement mortar for flooring ,skirting and jointed with neat cement slurry mixed with pigment to match shade of tiles, including providing spacers at required interval and removing stains etc including Cost of all materials mortar labour etc Complete as per specifications and the directions of the Engineer-in-charge First Floor	Sqm	91.59	1108.00	One Thousand One Hundred Eight Only
47	Providing Ceramic tiles of approved make,shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment , including cost of materials, labour, curing, complete as per specifications. - for Ceramic Tiles of size 30x30cms 6mm thick Complete as per specifications and the directions of the Engineer-in-charge.	Sqm	9.12	1370.83	One Thousand Three Hundred Seventy Paise EightyThree Only

48	Providing skirting, dado, rises of steps with colour glazed tiles 30X60 cms 6mm thick with border of size 30 x 10 cms on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, Complete as per specifications and the directions of the Engineer-in-charge	Sqm	36.12	1848.93	One Thousand Eight Hundred FourtyEight Paise NinetyThree Only
49	Waterproofing of RCC Terrace / podium slab / toilet / utilities / water retaining structure by preparing the surface by chipping and cleaning and Grouting of Honey comb, voids,cracks / construction joints with cement slurry (1kg cement added in 10 ltr of water) added with 100gm of inorganic accelerator, followed by spraying of liquid biological modified alkaline earth silicates @ 0.40 ltr per sqm on whole surface to reduce the micro porosity and allowing it to dry, curing the surface for the silicates to penetrate deeper into the concrete and spraying waterproofing impregnate liquid containing silane and silanol linear copolymer @ 0.50 ltr per sqm and finally applying polymer slurry made out of cross linked acrylic / styrene / butadiene & cement in the ratio of 1:0.1, @0.50kg/sqm on the whole surface, including all labour charges tools and equipments, Complete as per specifications and the directions of the Engineer-in-charge	Sqm	317.05	595.92	Five Hundred NinetyFive Paise NinetyTwo Only
50	Fixing of door frames in an existing opening including embedding frame in floor and walls after cutting masonary for holdfasts for embedding holdfast in cement concrete 1:3:6 of 20mm and downsize granite metal painting two coats of coal tar to sides of frame,making good the damages to walls and floor as required and disposal of the debries with lead upto 50 m. including cost of materials, labour, Complete as per specifications and the directions of the Engineer-in-charge Ground Floor	Nos	7.00	1547.57	One Thousand Five Hundred FourtySeven Paise FiftySeven Only
51	Fixing of door frames in an existing opening including embedding frame in floor and walls after cutting masonary for holdfasts for embedding holdfast in cement concrete 1:3:6 of 20mm and downsize granite metal painting two coats of coal tar to sides of frame,making good the damages to walls and floor as required and disposal of the debries with lead upto 50 m. including cost of materials, labour, Complete as per specifications and the directions of the Engineer-in-charge First Floor	Nos	3.00	1551.76	One Thousand Five Hundred FiftyOne Paise SeventySix Only

52	Providing Honne wood frames of doors, windows, clerestory windows,ventilators and other frames , wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps),but including cost of materials, labour, HOM of machineries Complete as per specifications and the directions of the Engineer-in-charge Ground Floor	Cum	0.84	99248.32	NinetyNine Thousand Two Hundred FourtyEight Paise ThirtyTwo Only
53	Providing Honne wood frames of doors, windows, clerestory windows,ventilators and other frames , wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps),but including cost of materials, labour, HOM of machineries Complete as per specifications and the directions of the Engineer-in-charge First Floor	Cum	0.37	99248.32	NinetyNine Thousand Two Hundred FourtyEight Paise ThirtyTwo Only
54	Providing and fixing 65mmx90mm GRP Doorframe fabricated using E-Glass Chopped Strand Mat (CSM). U.V-stabilized Isopthalic Gelcoat and Isopthalic resin. The thickness of the GRP skin shall not be less than 2.0 mm. The doorframe consists of four segmens, which are provided with plug-in-socket arrangement in-situ in the mould. The segments are plugged in and are joined together by means of screws. The GRP frame shall be provided with wooden reinforcement of 6 locations fro high screw holding capacity for fixing metallic hold fast and shall be consolidated by filling with medium density foam/Plaster with fibre reinforcement. Six Numbers of 260mmx25mmx5mm size S shaped M.S. flat hold fast shall be provided with the frame. Complete as per specifications and the directions of the Engineer-in-charge	m	11.40	509.81	Five Hundred Nine Paise EightyOne Only
55	Providing and fixing in position fully panelled Honne wood shutters for doors, styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures) Complete as per specifications and the directions of the Engineer-in-charge Ground Floor	Sqm	16.38	5349.65	Five Thousand Three Hundred FourtyNine Paise SixtyFive Only
56	Providing and fixing in position fully panelled Honne wood shutters for doors, styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures) Complete as per specifications and the directions of the Engineer-in-charge First Floor	Sqm	7.56	5354.18	Five Thousand Three Hundred FiftyFour Paise Eighteen Only

	Providing and fixing factory made single leaf rigid GRP Sandwich composite door shutter of 40 mm thick, laminated with two GRP skins with wood grain finish, fabricated using U.V-stabilized Isopthalic Gelcoat and one layer of 450 gns E-Glass Chopped Strand Mat (CSM), impregnated with orthopthalic polyester resin. The thickness of the skins shall not be less than 1.5mm. Expanded Polystyrene (EPS) structural foam panel of 37mm thickness and a density of 20 Kg/m3 shall be used as core material. Wooden reinforcements made of Seasoned Salwood block of cross section not lessthan 36mmx32mmand also necessary salwood reinforcements for fixing the metal fittings such as tower bolts, aldrops, handles, etc. shall be provided. A structural adhesive compatible with EPS foam shall be used for bonding the core material, the salwood reinforement and the skins. The material and process for manufacturing the door shutters shall confirm to RV-TIFAC Composites Design Centre Standards and specifications and the door shutters tested in confiramation to IS 4020-1994. The finish of shutter will be plain coulur White/IVORY/Beige/Light Grey or any other colour using high quality pigments	Sqm	3.15	4305.10	Four Thousand Three Hundred Five Paise Ten Only
58	Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, Complete as per specifications and the directions of the Engineer-in-charge	Sqm	23.94	109.89	One Hundred Nine Paise EightyNine Only
59	Providing and fixing in position in cement concrete 1:3:6 steel glazed windows and ventilators side hung/top hung 2/3 openable 1/3 fixed as per approved drawings using Z angles of 25x33x3mm, weighing 1.419 kg/m both for outer and inner frames and central mullion section of size 25x46x3mm, weighing 2.28kg/m all duly providing T section 19x19x3mm weighing 0.839 kg/m for glazing of windows, not more than 34 cms. c to c including providing and fixing 4mm. thick reeded glass with teakwood beading of required size, all steel sections should confirm to I.S 7452:1990, 4nos. of holdfasts of approved size, section should be cut to length welded and grinded electrically subdividing frames of unit shall be tenonned and revetted into the frames electrically. All the steel surface shall be throughly cleaned free of rust and painted with one coat of anti-corrosive paint and finishing two coats of ready mix paint of approved colour and make including cost of materials, fixtures, labour charges and HOM of machinery Complete as per specifications and the directions of the Engineer-in-charge	Sqm	48.15	3770.36	Three Thousand Seven Hundred Seventy Paise ThirtySix Only

	Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approve design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery Complete as per specifications and the directions of the Engineer-in-charge Ground Floor	Kg	680.40	107.63	One Hundred Seven Paise SixtyThree Only
61	Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approve design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery Complete as per specifications and the directions of the Engineer-in-charge First Floor	Kg	330.75	114.42	One Hundred Fourteen Paise FourtyTwo Only
62	Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, Complete as per specifications and the directions of the Engineer-in-charge	Sqm	95.40	107.63	One Hundred Seven Paise SixtyThree Only
63	Providing and fixing Stainless steel staircase raling as per Chief Architect Drawing No. 11520/ HRSC with hand rail 50mm dia 16 guage hollow pipe welded to vertical hollow 50mm dia pipe of 16 guage, stainless steel vertical pipe spaced at 1.20m regular intervals, and 5 Nos of 25mm dia. Stainless steel hollow horizontal pipe are welded to vertical 50mm dia hollow pipe. The entire assembly is fixed to staircase concrete by using expansion bolts by drilling concrete etc., complete including cost of materials, labour, HOM of machineries and electrical charges, etc Complete as per specifications and the directions of the Engineer-in-charge	Sqm	40.93	6821.31	Six Thousand Eight Hundred TwentyOne Paise ThirtyOne Only
64	Construction of Embankment with Material Gravel/ Murrum. KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(Including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density) MORTH Complete as per specifications and the directions of the Engineer-in-charge	Cum	30.04	368.20	Three Hundred SixtyEight Paise Twenty Only

K.B.P

65	PROVIDING TRAPEZOIDAL PROFILED SHEET Providing and installing of pre painted Galvolume iron Trapezoidal profiled sheet of approved make 1060 mm width (1000 mm cover width), 28-30 mm crest height with crest distance of 200 mm c/c with 2 ribs at the centre for stiffening. The total coated thickness (TCT) of the sheet will be 0.47 mm +/- 0.02 mm tolerance Zinc-Alu Alloy coating AZ150 gsm as per ASTM 1397/A755-550 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 20-22 microns using self drilling/self tapping screws of 25 mm length, to be fixed over the existing purlins, rafters, channels and trusses. Complete as per specifications and the directions of the Engineer-in-charge	Sqm	99.36	779.45	Seven Hundred SeventyNine Paise FourtyFive Only
66	Fabricating, supplying and erecting M.S. Tubular trusses of all spans as per approved drawing and design with prefabricated steel applications using quality material and are durable,reliable and corrosion and abrasion resistanrt.Welding shall confirm,to latest structural welding code.Quality shall be on various parameters like shape,size,design gauge and polish.The entire trusses is anchored in RCC column by using 4 nos of M.S. pipes and welding wherever necessary and applying one coat of redoxide primer coat to all members of including cost of all materials,labour charges, and hire charges of machineries for cutting, welding,grinding and erection equipments, with all lead and lift,transportation,etc, Complete as per specifications and the directions of the Engineer-in-charge	Kg	3206.86	125.75	One Hundred TwentyFive Paise SeventyFive Only
67	Point wiring using copper wire without switch Supplying and wiring adopting loop system in existing PVC Conduit /casing capping using 2x1.5Sqmm (Phase & Neutral) & 1x1.0 sqmm (Earth wire) FRLS multi strand PVC insulated copper wire (confirming to IS-694: and latest amendments) with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. Complete as per specifications and the directions of the Engineer-in-charge Short point upto 3m	Point	8.00	209.80	Two Hundred Nine Paise Eighty Only
68	Point wiring using copper wire without switch Supplying and wiring adopting loop system in existing PVC Conduit /casing capping using 2x1.5Sqmm (Phase & Neutral) & 1x1.0 sqmm (Earth wire) FRLS multi strand PVC insulated copper wire (confirming to IS-694: and latest amendments) with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet Complete as per specifications and the directions of the Engineer-in-charge Medium point above 3m - 6m	Point	8.00	288.48	Two Hundred EightyEight Paise FourtyEight Only

69	Concealed Conduit System - Supplying heavy gauge PVC conduit pipe .....mm dia .....mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of unction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary Complete as per specifications and the directions of the Engineer-in-charge 25mm dia, 2mm thick	Rm	45.00	55.60	FiftyFive Paise Sixty Only
70	Groove cutting : Supplying heavy gauge conduit PVC 25/2mm of s thick heavy with suitable size bend , metal junction boxes, adhesive pastes etc, by groove cutting in a wall and fixing by bracing U or J hooks and cement plastering up to the surface and run with 18SWG GI fish wire run throughout the conduit where ever necessary.Complete as per specifications and the directions of the Engineer-in-charge 19/20mm dia, 2mm thick	Rm	10.00	53.50	FiftyThree Paise Fifty Only
71	Groove cutting : Supplying heavy gauge conduit PVC 25/2mm of s thick heavy with suitable size bend , metal junction boxes, adhesive pastes etc, by groove cutting in a wall and fixing by bracing U or J hooks and cement plastering up to the surface and run with 18SWG GI fish wire run throughout the conduit where ever necessary.Complete as per specifications and the directions of the Engineer-in-charge 125mm dia, 2mm thick	Rm	10.00	56.65	FiftySix Paise SixtyFive Only
72	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall Complete as per specifications and the directions of the Engineer-in-charge 1 - 3 Way	Each	8.00	99.66	NinetyNine Paise SixtySix Only
73	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall Complete as per specifications and the directions of the Engineer-in-charge 4 - 5 Way	Each	8.00	110.15	One Hundred Ten Paise Fifteen Only
74	Supplying 6A flush type socket and 6 amp flush type SP switch either surface/flush mountinh in existing gang box or in 4mm thik plastic sheet and fixing over a flush mounted wooden box and wiring using necessary capacity wire as required as per IS 1293 and IS 3654. Complete as per specifications and the directions of the Engineer-in-charge 6AMP 3/5 and Switch	No	10.00	138.47	One Hundred ThirtyEight Paise FourtySeven Only
75	Supplying and mounting 2 Nos, of 2 Way 6amps flush type switches either surface/flush mounted on existing gang box or in 4mm thick plastic sheet and mounted on a flusg mounted wooden box and wiring as per IS 1293 Complete as per specifications and the directions of the Engineer-in-charge	Each	10.00	157.35	One Hundred FiftySeven Paise ThirtyFive Only

76	Supply and fixing of bakelite D.P /socket/switch with/ without neon indicator over existing wood board or flush mounting in plastic plates/nitches as per IS 1293 and IS 3854 Complete as per specifications and the directions of the Engineer-in-charge 16Amps Combined switch and socket with indication	No	10.00	203.51	Two Hundred Three Paise FiftyOne Only
77	Supply and fixing of bakelite D.P /socket/switch with/ without neon indicator over existing wood board or flush mounting in plastic plates/nitches as per IS 1293 and IS 3854 Complete as per specifications and the directions of the Engineer-in-charge Electronic stepped regulator.	No	10.00	157.35	One Hundred FiftySeven Paise ThirtyFive Only
78	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments Complete as per specifications and the directions of the Engineer-in-charge 1.5sqmm	Rm	45.00	21.03	TwentyOne Paise Three Only
79	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments Complete as per specifications and the directions of the Engineer-in-charge 2.5sqmm	Rm	8.00	33.57	ThirtyThree Paise FiftySeven Only
80	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments Complete as per specifications and the directions of the Engineer-in-charge Supplying and fixing Metal Fan Box with Round Hook	Each	8.00	89.17	EightyNine Paise Seventeen Only
81	Suppiying and fixing of slim box Fitting ,made out of CRCA sheet metal body with locking type holder completely wired Excluding Ballast &Flouresent Tube. 1X4' Tube light Fitting Complete as per specifications and the directions of the Engineer-in-charge	Nos	12.00	314.70	Three Hundred Fourteen Paise Seventy Only
82	Supplying capacitor type ceiling fan complete with down rod blades shackle, canopies etc, for operation on 230 volts, 50 cycles. single phase AC supply conforming to ISS-374-1979 and with double ball bearing system Complete as per specifications and the directions of the Engineer-in-charge 48" sweep (1200mm)	Each	12.00	2192.41	Two Thousand One Hundred NinetyTwo Paise FourtyOne Only

Signature of the Contractor

Executive Engineer,
Yelahanka Division,
BBMP, Bengaluru-64.